

Product datasheet for **MC201761**

Bicd2 (NM_029791) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bicd2 (NM_029791) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bicd2
Synonyms:	0610027D24Rik; 1110005D12Rik; AA408834; mKIAA0699
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC032198 sequence for NM_029791
 CCACGCGTCCGGCAGCGCGGCTAAGAGGGCCCGGCTTGTGGGAGCCAAGGTGGGAGCCGGCCTCGGCGC
 GCGGCCACCATGTCCGCGCCGTCGGAGGAGGAGGAGTATGCGCGTCTGGTGATGGAGGCGCAGCCGGAGT
 GGCTGCGCGCCGAGGTGAAGCGGCTGTCCCACGAGCTGGCCGAGACCACGCGTGAGAAGATCCAGGCGGC
 CGAGTATGGACTGGCGGTGCTGGAGGAGAAGCACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGAC
 TATGAGGCCATCCGCAGCGAGATGGAGCAGCTCAAAGAGGCATTTGGCCAGGCACATACAAACCACAAGA
 AGGTGGCTGCTGATGGTGAGAGCCGGGAGGAGAGCCTGATCCAGGAGTCGGCCTCAAGGAGCAGTACTA
 CGTGCGGAAGGTGCTGGAGCTGCAGACAGAGCTGAAACAGCTGCGCAACGTCCTCACCAACACCCAGTCT
 GAGAATGAGCGCCTCACGTCTGTGGCCAGGAGCTAAAAGAGATCAACCAGAATGTGGAGATCCAGCGTG
 GTCGCTGCGGGATGACATCAAGGAGTACAAGTTCGGGAGGCCCGTCTACTTCAGGACTACTCAGAGCT
 GGAGGAGGAGAACATCAGCCTGCAGAAACAAGTGTCTGTGCTCAGGCAGAACAGGTGGAGTTTGAGGGC
 CTAAGCATGAAATCAAGCGCCTGGAGGAGGAGACAGAGTACCTCAACAGCCAGCTAGAGGATGCCATCC
 GGCTTAAGGAGATCTCTGAACGGCAGTTGGAGGAGGCGCTGGAGACTGAAGACAGAGCGGGAGCAGAA
 GAACAACCTGCGCAAGGAGTTGTCGCACTACATGAGCATCAACGATTCTTCTATACCAGCCACCTGCAG
 GTCTCCTTAGATGGCCTCAAGTTCAGTGATGATACTGTCAACGACAGCCCAACAATGACGCCGAAGCCC
 TGGTCAATGGCTTTGAGCACAGTGGCTTGGTCAAATCATCCTTGGACAACAAGACATCCACACCCAGGAA
 GGATGGCCTAGCTCCACCCTCCCCAGCCTCGTCTCTGACCTGCTCAGTGAGCTCCACATATCTGAGATC
 CAGAAGCTGAAACAGCAGCTGGTGCAGATGGAGCGGGAGAAGGTGGGCTGCTGGCAACTGCAGGACA
 CACAGAAGCAGCTGGAGCAGGCTCGGGGAACCCTCTGTGAGCAGCATGAGAAGGTGAATCGTCTCACAGA
 GAACCTTAGTGCCCTCCGGCGCTGCAGGCTGGCAAGGAGCGACAGACCTCGTTGGATAATGAGAAGGAC
 CGTGACAGCCACGAAGACGGTGACTACTATGAGGTGGACATCAATGGCCTGAGATCCTGGCCTGCAAGT
 ACCACGTGGCTGTGGCTGAGGCTGGCGAGCTCCGGGAGCAGCTCAAGGCGTTGCGCAGCACACCAAGC
 TCGCGAAGCCCAGCACGAGAAGAAAAGGGCCGTTATGAGGCTGAGGGCCAGGCACTACTGAGAAGATC
 TCTCTGTGGAGAAGGCTAGCCACCAGGACCGAGAGCTGCTGGCCATCTGGAAAAGGAGCTGAAGAAGG
 TGAGCGATGTGGCTGGTGAACCCAGGGCAGCCTGAATGTGGCTCAGGATGAGCTGGTGACCTTCAGCGA
 GGAGCTGGCCAACCTCTACCACCATGTGTGCATGTGCAACAACGAGACGCCAACCGTGTATGCTCGAC
 TATTATCGTGAGGGCCAGGGCAAGGCTGGCCGACCCAGCCAGAGGGCCGCGGGCCGGTCACTGTCC
 TCTTGCCCAAGGGGCTGTGGCCACAGAGGTGGCCGAGCAGATGGTGGGACTGGGGACAACAGTCTTC
 ACCCAGTCTTCACTGCCGTACCTCTGAGTGACCCCGCGGGAACCTATGAACATCTACAACCTGATC
 GCCATCATCCGAGACCAGATCAAGCACCTGCAGGACCCGTGGACCGTACGACCCAGCTGTCCCGCAGC
 GGATTGCCTCGCAGGAGCTGGCCCTGCTGTGGACAAGGACAAGGAAGCACTCATGGAGGAGATCCTCAA
 GCTGAAGTCCCTGCTGAGTACCAAGCGGAGCAGATCACCACACTGCGCACCGTGTCAAGGCCAACAAAG
 CAGACAGCTGAGGTGGCCCTGGCCAACCTGAAGAGCAAGTATGAGAACGAGAAGGCCATGGTGACCAGGA
 CCATGATGAAGCTACGGAACGAGCTCAAGGCCCTCAAGGAAGACGACGCCACCTTCTCCTCCCTGCGTGC
 CATGTTTGCCACCAGGTGTGACGAATACATCACACAGCTGGATGAGATGCAGCGGAGCTGGCAGCTGCC
 GAGGACGAGAAGAAGACCCTTAACCTCTGTGCGCATGGCCATCCAGCAGAAGCTGGCGCTCACCCAGC
 GGCTGGAGCTGCTGGAGCTGGACCATGAACAGACCCGAGGGCCGAGCAAGGCCGCTCCAAGGCCAA
 GCCAGCCTCACCGAGCCTGTAGAGTAGCTGCTGGAGGAGGCGGCCACCCGGCCCTGTACACAGCAGCC
 CCTCCCCCTCCCCTCCTGTGGCCATGCAGAGGAAGGAAGGGCAGCCTAAAGTCCACTTAGAAATGTTTTG
 GATATGCCACTGTAATTCTTTTCAAATAGCATTCCCCAAGTTTTTAATGGGAGAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_029791

Insert Size: 2463 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>BC032198</u> , <u>AAH32198</u>
RefSeq Size:	2729 bp
RefSeq ORF:	2463 bp
Locus ID:	76895
UniProt ID:	<u>Q921C5</u>
Cytogenetics:	13 A5
Gene Summary:	<p>Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates and stabilizes the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (PubMed:11483508, PubMed:25035494, PubMed:24986880, PubMed:22956769). Facilitates the binding of RAB6A to the Golgi by stabilizing its GTP-bound form (PubMed:25962623). Regulates coat complex coatomer protein I (COPI)-independent Golgi-endoplasmic reticulum transport via its interaction with RAB6A and recruitment of the dynein-dynactin motor complex (PubMed:12447383, PubMed:25962623). Contributes to nuclear and centrosomal positioning prior to mitotic entry through regulation of both dynein and kinesin-1. During G2 phase of the cell cycle, associates with RANBP2 at the nuclear pores and recruits dynein and dynactin to the nuclear envelope to ensure proper positioning of the nucleus relative to centrosomes prior to the onset of mitosis (PubMed:20386726).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 3' coding sequence and 3' UTR, compared to variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.</p>